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36067 7590 03/26/2004  
DALINA LAW GROUP, P.C.  
7910 IVANHOE AVE. #325  
LA JOLLA, CA 92037

EXAMINER

THOMPSON JR, FOREST

ART UNIT

PAPER NUMBER

3625

DATE MAILED: 03/26/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577,268	05/23/2000	Ariel Hazi	254/147	3565

TITLE OF INVENTION: TIMESHARED ELECTRONIC CATALOG SYSTEM AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	06/28/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.  
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

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**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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36067 7590 03/26/2004

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	YES	\$665	\$0	\$665	06/28/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
THOMPSON JR, FOREST	3625	705-026000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

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Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

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- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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36067	7590	03/26/2004		
DALINA LAW GROUP, P.C. 7910 IVANHOE AVE. #325 LA JOLLA, CA 92037			EXAMINER THOMPSON JR, FOREST	
			ART UNIT	PAPER NUMBER
			3625	
DATE MAILED: 03/26/2004				

## Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

# Notice of Allowability

Application No.

09/577,268

Examiner

Forest Thompson Jr.

Applicant(s)

HAZI ET AL.

Art Unit

3625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amdt. B dated 1/12/2004.
2. ☒ The allowed claim(s) is/are 41-54 and 56-60.
3. ☒ The drawings filed on 21 May 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 17.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
Jeffrey A. Smith  
Primary Examiner

***Response to Amendment***

1. **Claims 41-54 and 56-60 are allowed.**
2. This action is responsive to the amendment B (see Paper #B) filed 01/12/2004, and examiner's amendment as stated below. Amendment B cancelled claims 1-40 and added new claims 41-60. Claims 41-60 are pending. Examiner's amendment amended claims 41, 54, 56-57, and 60, and cancelled claim 55. Claims 41-54 and 56-60 are pending.
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action (See Paper #3). The text of those sections of Title 35, U.S. Code not otherwise provided in a prior Office action will be included in this action where appropriate.

**EXAMINER'S AMENDMENT**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

5. Authorization for the examiner's amendment was given in two telephone interviews with Joe Mayo (#36067) (applicants' representative, telephone#: 858-442-5877).

The first telephone interview, on 3/01/2004, resulted in the claims 44, 45 and 47 of the application being amended as follows:

In claim 44, line 2, after "identify said" insert --set of--;  
in claim 45, line 1, change "module if" to read --module is--;  
in claim 47, line 1, after "claim 41" insert --wherein--.

The second telephone interview, on 3/19/2004, resulted in the claims 41, 54, 55, 56, 57, and 60 of the application being amended as follows:

41. (Amended) A system for generating user defined timeshared derivative catalogs from a master catalog, comprising:

A) a dynamic partitioning module configured to obtain user profile information and retrieve a user defined first view via a masking module;

B) said masking module configured to provide said user defined first view to a first user by performing a bitwise AND operation between a first bit vector index and a second bit vector index to select a first view data record set from a plurality of data records in a master data set and by performing a bitwise AND operation between a third bit vector index and a fourth bit vector index to yield a first view data element set

comprising a first view data record set having said first view data element set; which includes:

said first bit vector index defining a first set of available data records in said master data set comprising a first single bit corresponding to a first available data record in said plurality of data records in said master data set;

said second bit vector index defining a second set of available data records in said master data set comprising a second single bit corresponding to a second available data record in said plurality of data records in said master data set;

said third bit vector index defining a first set of available data elements in said master data set comprising a third single bit corresponding to a first available data element in said plurality of data records in said master data set; and

said fourth bit vector index defining a second set of available data elements in said master data set comprising a fourth single bit corresponding to a second available data element in said plurality of data records in said master data set[.]; and

C) a computer for executing the modules.

54. (Amended) In a computer system, a method for generating custom catalogs from a master catalog comprising:

defining a master data set comprising a plurality of data records stored in a database on a computer;

configuring a first bit vector index to define a first set of available data records in said master data set;

configuring a second bit vector index to define a second set of available data records in said master data set;

configuring a third bit vector index to define a first set of available data elements in said master data set;

configuring a fourth bit vector index defining a second set of available data elements in said master data set; [and, ]

performing a bitwise AND operation between said first bit vector index and said second bit vector index to select a first view data record set from said plurality of data records in said master data set;

performing a bitwise AND operation between said third bit vector index and said fourth bit vector index to yield a first view data element set; [and, ]

providing a first view to a first user comprising said first view data record set having said first view data element set[.];

configuring a fifth bit vector index to define a third set of available data records in said master data set;

configuring a sixth bit vector index defining a third set of available data elements in said master data set; and,

performing a bitwise AND operation between said first bit vector index and said fifth bit vector index to select a second view data record set from said plurality of data records in said master data set;

performing a bitwise AND operation between said third bit vector index and said sixth bit vector index to yield a second view data element set; and,



providing a second view to a second user comprising said second view  
data record set having said second view data element set.

55. (Cancelled)

56. In claim 56, line 1, change "of claim 55" to read --of claim 54--.

57. In claim 57, line 1, change "of claim 55" to read --of claim 54--.

60. (Amended) In a computer system, a method for generating user defined  
timeshared custom catalogs from a master catalog comprising:

defining a master data set comprising a plurality of data records stored in a  
database on a computer;

configuring a first bit vector index to define a first set of available data  
records in said master data set;

configuring a second bit vector index to define a second set of available  
data records in said master data set;

configuring a third bit vector index to define a first set of available data  
elements in said master data set;

configuring a fourth bit vector index defining a second set of available  
data elements in said master data set; and,

performing a bitwise AND operation between said first bit vector index and said second bit vector index to select a first view data record set from said plurality of data records in said master data set;

performing a bitwise AND operation between said third bit vector index and said fourth bit vector index to yield a first view data element set;

providing a first view to a first user comprising said first view data record set having said first view data element set;

generating a first result query bit vector by performing a bitwise OR between each of a first plurality of values constraining a first lookup field;

generating a second result query bit vector by performing a bitwise OR between each of a second plurality of values constraining a second lookup field;

generating a multiple constraint result query bit vector by performing a bitwise AND between said first result query bit vector and said second result query bit vector; and

returning a corresponding result data record for each logical ONE in said multiple constraint result query bit vector.

### ***Allowable Subject Matter***

6. The following is an examiner's statement of reasons for allowance:

The instant invention relates to a novel and unobvious system and method for generating time-shared catalogs from a master catalog. The key patentable features,

Electronic Requisition facility. The Electronic Catalogue includes a Public Catalog and a Private catalogue.

- Chadha et al. (U.S. Patent No. 5,706,495) teaches a method, apparatus, and article of manufacture for optimizing SQL queries in a relational database management system using a vectorized index. The vectorized index represents values in one or more of the columns of a particular table in the relational database. The vectorized index is comprised of a plurality of positions, wherein each of the positions comprises a linear array that represents a value for the specified columns in a corresponding row of the particular table in the relational database.
- Chen et al. (U.S. Patent No. 5,852,821) teaches a server performing an indexing method of data management to create and maintain indexes more efficiently than existing indexing approaches is described. The server is disposed between an application program and a DBMS and is coupled to a database located within the DBMS. The database has an ordered set of data values stored in memory. Each data value has a bit patterned and an identifier associated therewith. The server creates a plurality of bit vectors such that the number of bit vectors created equals the longest length bit pattern for the values.
- Eichstaedt et al. (UK Patent Application No. 2 341 700) teaches a method for parallel matching of a user profile with desired data comprising partitioning a profile database into sub-partitions having data subsets, the subsets comprising predicates used to assert selected properties to information items, mapping each sub-partition onto

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which are specified in all of the independent claims, is “performing a bitwise AND operation between a first bit vector index and a second bit vector index to select a first view data record set from a plurality of data records in a master data set,” and “performing a bitwise AND operation between a third bit vector index and a fourth bit vector index to yield a first view data element set.” Neither King, Jr. nor French anticipates claims 41, 54, nor 60 because neither King, Jr. nor French teaches the claimed aspects of “performing a bitwise AND operation between a first bit vector index and a second bit vector index to select a first view data record set from a plurality of data records in a master data set,” nor “performing a bitwise AND operation between a third bit vector index and a fourth bit vector index to yield a first view data element set.”

Prior art does not disclose the unique combination of features, as claimed by applicant. Prior art does disclose some aspects or features of the invention, but it would not have been obvious to combine the art to disclose applicant’s claimed invention.

Prior art of record includes:

- King, Jr. et al. (U.S. Patent No. 5,319,542) teaches a system that facilitates the user in electronically ordering items from suppliers.
- French et al. (U.S. Patent No. 5,649,181) teaches a server that performs an indexing method of data management to create and maintain indexes in an efficient manner.
- King, Jr. (U.S. Patent No. 5,319,542) facilitates the user in electronically ordering items from suppliers. The system is comprised of an Electronic Catalogue and an

one or more processors yielding greatest processing efficiency, communicating an information with a corresponding predicate.

- Sheth, B.; Maes, P.; "Evolving agents for personalized information;" IEEE Comput. Soc. Press; p. 345-52; 1993; that teaches how techniques from artificial life can be used to evolve a population of personalized information filtering agents.
- Morita, M.; Shinoda, Y.; "Information filtering based on user behavior analysis and best match text retrieval;" Springer-Verlag; 358 pp.; 1994; that teaches information filtering systems have potential power that may provide an efficient means of navigating through a large and diverse data space.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Forest Thompson Jr. whose telephone number is (703) 306-5449. The examiner can normally be reached on 6:30 AM-3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached on (703) 308-1065. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FT   
03/19/2004

  
Jeffrey A. Smith  
Primary Examiner